Contents volume 23

Allegrini, M. → Fuso, F. 233
Amusia, M.Ya. → Klar, D. 101
Angelov, D.A. → Vidolova-Angelova, E.P. 215
Arimondo, E. → Fuso, F. 233
Ast, H. → Walters, H.R.J. 353
Aufmuth, P., Bernard, A., Deckwer, M., Kopp, E.-G., Steudel, A.: Hyperfine structure in the configurations $4f^4\,6s^2$ and $4f^4\,5d\,6s$ of Nd I 19
Aufmuth, P., Bernard, A., Kopp, E.-G.: New levels and calculations in the Nd I spectrum 15
Avaldi, L., Camilloni, R., Letardi, P., Stefani, G., McCarthy, I.E., Zhang, X., Walters, H.R.J., Whelan, C.T.: Absolute triple differential cross sections for helium at 300 eV 341
Babb, J.F., Habs, D., Spruch, L., Wolf, A.: Retardation (Casimir) energy shifts for Rydberg helium-like low-Z ions. An exploratory study 197
Bahns, J.T. → Li, X. 165
Baier, A., Behrens, H.O., Guthöhrlein, G.H., Windholz, L.: Hyperfine structure investigations of the tantalum/blend $\lambda = 6356.14$ Å 151
Balashov, V.V., Grum-Grzhimailo, A.N.: Inelastic and superelastic scattering of electrons from sodium^{22}. Behaviour of polarization and correlation parameters for the 3S–3P transition in a broad angular range 127
Barsanti, M., Gianfrani, L., Pavone, F., Sasso, A., Silvestrini, C., Tino, G.M.: Isotope shifts and hyperfine structures investigation of doubly excited levels in SrI 145
Becker, K. → Zheng, S.H. 137
Behrens, H.O. → Baier, A. 151
Bengtsson, G.J., Berzinsh, U., Larsson, J., Svanberg, S.: Oscillator strengths for resonance transitions in neutral selenium and tellurium derived from time-resolved laser spectroscopy 29
Bergmann, K. → Shore, B.W. 33
Bernard, A. → Aufmuth, P. 15
Bernard, A. → Aufmuth, P. 19
Berzinsh, U. → Bengtsson, G.J. 29
Berzinsh, U. → Persson, J. 67
Bonfert, J. → Walters, H.R.J. 353
Camilloni, R. → Avaldi, L. 341
Campbell, E.E.B., Ehlich, R., Hielscher, A., Frazao, J.M.A., Hertel, I.V.: Collision energy dependence of He and Ne capture by C_{60}^+ 1
Carlen, M., Dousse, J.-Cl., Gasser, M., Hoszowska, J., Kern, J., Rhême, Ch., Rymuza, P., Sujkowski, Z., Trautmann, D.: Inner-shell ionization in near-central collisions of 6.7 MeV/amu ^{4}He ions with mid-Z atoms. Part. I. M-shell ionization 71
Carlen, M. → Rymuza, P. 81
Carruthers, D.R.J., Crothers, D.S.F.: Absolute $^3P^0$ triple differential cross sections for electron-helium Wannier threshold ionisation 365
Cherid, M., Gélébart, F., Pochat, A., Tweed, R.J., Zhang, X., Whelan, C.T., Walters, H.R.J.: Absolute triple differential cross-section measurements in energy sharing kinematics and a coplanar asymmetric geometry at 100 and 200 eV on He 347
Chevary, J.A. → Engel, E. 7
Colpa, J.P. → Temme, F.P. 187
Compton, R.N. → Zhang, J. 219
Costanzo, E. → Faraci, G. 263
Crothers, D.S.F. → Carruthers, D.R.J. 365
Crowe, A. → McDonald, D.G. 371
Dal Cappello, C., Langlois, J., Dal Cappello, M.C., Joulakian, B., Lahmam-Bennani, A., Duguet, A., Tweed, R.: Angular distributions in the double ionization of noble gases by electron impact 389
Dal Cappello, M.C. → Dal Cappello, C. 389
Dawber, G. → Hall, R.I. 377
Deckwer, M. → Aufmuth, P. 19
Diest, R.J.J. van → Veer, W.E. van der 155
Ding, A.M.G. → Fieber, M. 171
Dong, C.-Z., Zhao, J.-B.: The $4s^2\,4p^3$-$4s\,4p^4$ transition in AsI-like AgXV 211
Dönszelmann, A. → Veer, W.E. van der 155
Dousse, J.-Cl. → Carlen, M. 71
Dousse, J.-Cl. → Rymuza, P. 81
Dreizler, R.M. → Walters, H.R.J. 353
Duguet, A., Lahmam-Bennani, A.: Double ionization mechanisms from e, $(3-1)\,e$ and $(e, 3e)$ experiments 383
Duguet, A. → Dal Cappello, C. 389
Ehlich, R. → Campbell, E.E.B. 1
Ehrhardt, H. → Rösel, T. 359
Engel, E., Chevary, J.A., Macdonald, L.D., Vosko, S.H.: Asymptotic properties of the exchange energy density and the exchange potential of finite systems: relevance for generalized gradient approximations 7
Epifanov, S.Yu., Faizulaev, V.N.: Hindered rotation of water molecule in van der Waals complex 85
Faizulaev, V.N. → Epifanov, S.Yu. 85
Faraci, G., Costanzo, E., Pennisi, A.R., Hwu, Y., Margaritondo, G.: Photoelectron spectroscopy of silver clusters 263
Fehr, M. → Klar, H. 295
Fieber, M., Ding, A.M.G., Kuntz, P.J.: A diatomics-in-molecules model for singly ionized neon clusters 171
Foth, H.-J. → Hertzler, Ch. 99
Frazao, J.M.A. → Campbell, E.E.B. 1
Frost, L. → Rösel, T. 359
Fuso, F., Allegrini, M., Arimondo, E., Manson, S.T.: Model for atomic multiphoton ionization via Rydberg states 233
Ganz, J. → Klar, D. 101
Gasser, M. → Carlen, M. 71
Gasser, M. → Rymuza, P. 81
Gélébart, F. → Cherid, M. 347
Gianfrani, L. → Barsanti, M. 145
Giraud-Girard, J., Maynau, D.: Ab-initio study of localization of an excess electron in sodium halide clusters 91
Graf, H. → Walters, H.R.J. 353
Grum-Grzhimailo, A.N. → Balashov, V.V. 127
Gustavsson, M. → Persson, J. 67
Guthöhrlein, G.H. → Baier, A. 151
Habs, D. → Babb, J.F. 197
Hall, R.I., Dawber, G., McConkey, A.G., MacDonald, M.A., King, G.C.: Threshold photoelectrons coincidence spectroscopy of the rare gases Ne, Ar, Kr and Xe 377
Harth, K. → Klar, D. 101
Herlin, N., Maréchal, J.L., Reynaud, C., Nenner, I.: Core-hole photoionization study of polysilane compounds 159
Hertel, I.V. → Campbell, E.E.B. 1
Hertzler, Ch., Staudt, W.F., Foth, H.-J.: Direct measurement of the N_2^+ dissociation energy 99
Hielscher, A. → Campbell, E.E.B. 1
Hofmann, C. → Hofstetter, S. 227
Hofstetter, S., Hofmann, C., Soff, G.: Ionization of hydrogen by a relativistic heavy projectile 227
Hoszowska, J. → Carlen, M. 71
Hotop, H. → Klar, D. 101
Huber, B.A. → Lebius, H. 61
Hwu, Y. → Faraci, G. 263
Ishii, K., Nakajima, T., Masui, S., Yoshida, Y., Seguchi, M., Kimura, M.: Stark beats of Lyman-α-emission of foil-excited hydrogen atom 55
Joachain, C.J., Makhoute, A., Maquet, A., Taieb, R.: Laser-assisted $(e, 2e)$ collisions in helium 397
Joulakian, B. → Dal Cappello, C. 389
Jung, K. → Rösel, T. 359
Kamp, A.B. van der → Veer, W.E. van der 155
Kaneko, Y. → Kojima, T.M. 181
Kern, J. → Carlen, M. 71
Kern, J. → Rymuza, P. 81
Kimura, M. → Ishii, K. 55
King, G.C. → Hall, R.I. 377
Klar, D., Harth, K., Ganz, J., Kraft, T., Ruf, M.-W., Hotop, H., Tsemekhman, V., Tsemekhman, K., Amusia, M.Ya.: On the J-dependence of the odd ns′, $J = 0,1$) autoionization resonances of the rare gases Ne, Ar, Kr, and Xe 101
Klar, H., Fehr, M.: Parametrization of multiply differential cross sections 295
Kobayashi, N. → Kojima, T.M. 181
Koch, A., Peyerimhoff, S.D.: Ab-initio-calculations of low-lying vertical K-shell excitations in silane and mono-fluoro-silane 239
Kojima, T.M., Kobayashi, N., Kaneko, Y.: Formation of helium cluster ions HHe_x^+ ($x \leqq 14$) and $H_3He_x^+$ ($x \leqq 13$) in a very low temperature drift tube 181
Kopp, E.-G. → Aufmuth, P. 15
Kopp, E.-G. → Aufmuth, P. 19
Kozhuharov, C. → Stöhlker, Th. 121
Kraft, T. → Klar, D. 101
Krappe, H.J.: On the electrostatic energy of charged alkali clusters 269
Krätschmer, W. → Zhang, Y. 195
Krustev, T.B. → Vidolova-Angelova, E.P. 215
Kuntz, P.J. → Fieber, M. 171
Lahmam-Bennani, A. → Dal Cappello, C. 389
Lahmam-Bennani, A. → Duguet, A. 383

Lambropoulos, P. → Zhang, J. 219
Langlois, J. → Dal Cappello, C. 389
Langlois, J. → Robaux, O. 331
Larsson, J. → Bengtsson, G.J. 29
Lebius, H., Huber, B.A.: Electron-electron interaction in slow charge exchange collisions 61
Letardi, P. → Avaldi, L. 341
Lhagva, O.: Triple differential generalized oscillator strength of direct and resonance, $He(e, 2e)He^+$ reaction at high incident energies 321
Li, X., Milošević, S., Pichler, G., Bahns, J.T., Stwalley, W.C.: Quantum simulation of bound-free spectra. Lithium dimer $2^3\Pi_g - 1^3\Sigma_u^+$ 165
Livingston, A.E. → Stöhlker, Th. 121
Ludziejewski, T. → Rymuza, P. 81
Macdonald, L.D. → Engel, E. 7
MacDonald, M.A. → Hall, R.I. 377
Makhoute, A. → Joachain, C.J. 397
Manson, S.T. → Fuso, F. 233
Maquet, A. → Joachain, C.J. 397
Maréchal, J.L. → Herlin, N. 159
Margaritondo, G. → Faraci, G. 263
Martins, M., Zimmermann, P.: Investigation of autoionizing CuI-states in the region of the second ionization limit CuII $3d^9 4s$ 115
Masui, S. → Ishii, K. 55
Maynau, D. → Giraud-Girard, J. 91
McCarthy, I.E.: Range of validity of distorted wave Born and impulse approximations for $(e, 2e)$ 287
McCarthy, I.E. → Avaldi, L. 341
McConkey, A.G. → Hall, R.I. 377
McDonald, D.G., Crowe, A.: Triple differential cross sections in the vicinity of the $(2s^2)^1S$ state of helium 371
Miklaszewski, W., Rebentrost, F.: Classical path study of excitation of a collision system by ultrashort laser pulses 249
Milošević, S. → Li, X. 165
Mincheva, S.T. → Vidolova-Angelova, E.P. 215
Mokler, P.H. → Stöhlker, Th. 121
Nakajima, T. → Ishii, K. 55
Nakel, W. → Walters, H.R.J. 353
Neale, L., Wilson, M.: Ab initio structure of $3p\,4p$ in Si I 3
Nenner, I. → Herlin, N. 159
Nilsson, T. → Persson, J. 67
Oreg, J. → Shore, B.W. 33
Pavone, F. → Barsanti, M. 145
Pennisi, A.R. → Faraci, G. 263
Persson, J., Berzinsh, U., Nilsson, T., Gustavsson, M.: Laser and radio-frequency spectroscopy of the $5d^3\,6s^2\,{}^4P_{3/2,\,5/2}$ states in Ta I 67
Peyerimhoff, S.D. → Koch, A. 239
Pichler, G. → Li, X. 165
Pochat, A. → Cherid, M. 347
Rebentrost, F. → Miklaszewski, W. 249
Reinhard, P.-G. → Weisgerber, S. 275
Reynaud, C. → Herlin, N. 159
Rhême, Ch. → Carlen, M. 71
Rhême, Ch. → Rymuza, P. 81
Robaux, O., Tweed, R.J., Langlois, J.: Quantum-mechanical analogies for classical post-collision interaction effects in $(e, 2e)$ collisions 331
Röder, J. → Rösel, T. 359
Rösel, T., Schlemmer, P., Röder, J., Frost, L., Jung, K., Ehrhardt, H.: Near threshold absolute TDCS: first results 359
Ruf, M.-W. → Klar, D. 101
Rymuza, P., Ludziejewski, T., Sujkowski, Z., Carlen, M., Dousse, J.-Cl., Gasser, M., Kern, J., Rhême, Ch.: Inner-shell ionization in near-central collisions of 6.7 MeV/amu ^4He ions with mid-Z atoms. Part II. *L*-shell ionization 81
Rymuza, P. → Carlen, M. 71
Sasso, A. → Barsanti, M. 145
Schlemmer, P. → Rösel, T. 359
Schröter, C.D. → Walters, H.R.J. 353
Seguchi, M. → Ishii, K. 55
Shore, B.W., Bergmann, K., Oreg, J.: Coherent population transfer: stimulated Raman adiabatic passage and the Landau-Zener picture 33
Silvestrini, C. → Barsanti, M. 145
Soff, G. → Hofstetter, S. 227
Späth, M. → Zhang, Y. 195
Spruch, L. → Babb, J.F. 197
Stachura, Z. → Stöhlker, Th. 121
Staudt, W.F. → Hertzler, Ch. 99
Stefani, G. → Avaldi, L. 341
Steudel, A. → Aufmuth, P. 19
Stockdale, J.A.D. → Zhang, J. 219
Stöhlker, Th., Kozhuharov, C., Livingston, A.E., Mokler, P.H., Stachura, Z., Warczak, A.: Radiative electron capture into the *K*-, *L*- and *M*-Shell of decelerated, hydrogenic Ge projectiles 121
Stuke, M. → Zhang, Y. 195
Stwalley, W.C. → Li, X. 165
Sujkowski, Z. → Carlen, M. 71
Sujkowski, Z. → Rymuza, P. 81
Svanberg, S. → Bengtsson, G.J. 29
Taieb, R. → Joachain, C.J. 397
Temme, F.P., Colpa, J.P.: Spin symmetry and Gel'fand patterns of higher $SU2 \times \mathcal{S}_n$ groups. Application of inner tensor product algebra and $\mathcal{S}_5 \to \mathcal{S}_5 \downarrow \mathcal{S}_{4v}$ mapping in deriving the MQ-NMR spin substructure of *nido*-$^{11}B_5H_9$ 187
Tino, G.M. → Barsanti, M. 145
Trautmann, D. → Carlen, M. 71
Tsemekhman, K. → Klar, D. 101
Tsemekhman, V. → Klar, D. 101
Tweed, R.J.: Double processes in $e^- - He$ collisions 309
Tweed, R.J. → Cherid, M. 347
Tweed, R.J. → Robaux, O. 331
Tweed, R. → Dal Cappello, C. 389
Veer, W.E. van der, Diest, R.J.J. van, Kamp, A.B. van der, Dönszelmann, A.: A copper vapour laser operating at wavelengths of 303.6 nm and 306.3 nm 155
Vidolova-Angelova, E.P., Angelov, D.A., Krustev, T.B., Mincheva, S.T.: Investigation of lutetium Rydberg states by laser multistep resonance ionization spectroscopy 215
Vosko, S.H. → Engel, E. 7
Walters, H.R.J., Ast, H., Whelan, C.T., Dreizler, R.M., Graf, H., Schröter, C.D., Bonfert, J., Nakel, W.: Relativistic $(e, 2e)$ collisions on atomic inner shells in symmetric geometry 353
Walters, H.R.J. → Avaldi, L. 341
Walters, H.R.J. → Cherid, M. 347
Walters, H.R.J. → Zhang, X. 301
Warczak, A. → Stöhlker, Th. 121
Weisgerber, S., Reinhard, P.-G.: The shell structure of ^3He droplets 275
Whelan, C.T. → Avaldi, L. 341
Whelan, C.T. → Cherid, M. 347
Whelan, C.T. → Walters, H.R.J. 353
Whelan, C.T. → Zhang, X. 301
Wilson, M. → Neale, L. 3
Windholz, L. → Baier, A. 151
Winter, H.: Capture of polarized electrons into excited terms of fast atoms during grazing surface collisions 41
Wolf, A. → Babb, J.F. 197
Yoshida, Y. → Ishii, K. 55
Zei, D. → Zhang, J. 219
Zhang, J., Lambropoulos, P., Zei, D., Compton, R.N., Stockdale, J.A.D.: Resonantly enhanced two-photon excitation of sodium atoms in a heat pipe 219
Zhang, X., Whelan, C.T., Walters, H.R.J.: Distorted-wave Born approximation calculations of $(e, 2e)$ reactions 301
Zhang, X. → Avaldi, L. 341
Zhang, X. → Cherid, M. 347
Zhang, Y., Späth, M., Krätschmer, W., Stuke, M.: Sub-picosecond laser ionization of free C_{60} and C_{70} at 248 nm 195
Zhao, J.-B. → Dong, C.-Z. 211
Zheng, S.H., Becker, K.: Electron-photon polarization correlation studies in neon and argon 137
Zimmermann, P. → Martins, M. 115

Indexed in *Current Contents*
Evaluated and abstracted
for PHYS on STN